REFILED PURSUANT TO COURT ORDER (DKT. 102)

EXHIBIT F

REFILED PURSUANT TO COURT ORDER (DKT. 102)

'386 Patent	Hyperion™ Instrument with Maxpar® Reagents
	interface (green) high-pass ion optics (gray), ion separation in the time-of-flight (TOF) mass analyzer (blue), and data acquisition and processing (red).

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1. A method for the analysis of an analyte in a sample, comprising:

'104 Patent

- (i) incubating an element tagged affinity reagent with an analyte, the element tagged affinity reagent comprising an affinity reagent tagged with an element tag, the element tag comprising a linear or branched polymer having multiple metalbinding pendant groups, wherein each pendant group includes at least one metal atom or is capable of binding at least one metal atom, and wherein the affinity reagent specifically binds with the analyte, wherein the analyte is located within or on an intact cell;
- (ii) separating unbound element tagged affinity reagent from bound element tagged affinity reagent; and
- (iii) analyzing the element tag bound to the affinity reagent attached to the analyte of the intact cell by atomic spectroscopy, wherein analyzing occurs without prior acidification of the sample.

HyperionTM Instrument with Maxpar® Reagents

The Hyperion TM Instrument with Maxpar® Reagents practices Claim 1 of the '104 Patent. For example, the Hyperion Imaging System enables cellular profiling within tissue. The Hyperion IMC Staining Protocol describes incubation with Maxpar antibodies (affinity reagent) follow by a wash step as recited in steps (i) and (ii) respectively of claim 1. Analysis is performed on the ICP-MS Helios system, as shown in Figure 3 of the Hyperion Imaging System User Guide.

Pg. 3 of Hyperion IMC Staining Protocol

13 To prepare the antibody cocktail, calculate the total volume of antibodies at concentrations specific for the assay and bring the volume up to a final volume of 0.5% BSA in Maxpar PBS. Place the slides in a hydration chamber and pipette the antibody master mix onto the section.

- . When using Fluidigm pathologist-verified Maxpar antibodies for imaging, consult the technical data sheets for the recommended dilution ranges for individual antibodies.
- \bullet Spin the antibody at 13,000 x g for 2 minutes and pipet from the top of the tube to avoid antibody aggregates.
- Add a small volume of individual antibodies into a larger volume of 3% BSA in Maxpar PBS diluent.
- BSA should be 0.5% concentration in the final antibody cocktail.
- · The final volume of antibody cocktail needed depends on the size and location of your tissue sections and the number of slides. Determine volume empirically

IMPORTANT It is recommended that you store the antibody cocktail on ice and add it to your samples within 1-2 hours of preparation for best results

- 14 Incubate overnight with the antibody cocktail at 4 °C in a hydration chamber. (See Step
- 15 Wash the slides in 0.2% Triton X-100 in Maxpar PBS for 8 minutes with slow agitation in Coplin Jars. Repeat.

Fluidigm Imaging Mass Cytometry Applications (Webpage)

A Simple Four-Step Workflow

The Imaging Mass Cytometry workflow enables deep profiling of standard FFPE or frozen tissue sections and of fixed cells deposited on glass microscope slides using the Hyperion Imaging System.



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(FIRST SET)





Imaging System.



ANALYZE images in minutes using the MCD View and easily export for

conjugated to metal tags.

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28 PLAINTIFFS'

CONFIDENTIAL

INTERROGATORIES

RESPONSES TO DEFENDANT'S

REFILED PURSUANT TO COURT ORDER (DKT. 102)

1	'104 Patent	_Hyperion TM Instrument with Maxpar® Reagents
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10		Pg. 7-8 of Hyperion User Guide
11		Introduction The Hyperion* Imaging System is a mass cytometry-based high-resolution laser ablation
12		system that allows the highly multiplexed imaging with 135 channels available. The system is designed to detect metal-tagged antibodies bound to the cell surface and intracellular
13		proteins in tissue sections using immunohistochemical methods. This allows researchers to investigate cellular subpopulations and cell-to-cell interactions in various tissue microenvironments with greater resolution. The system allows for high-resolution cellular
14		profiling in spatial proximity, enabling detection of disease cells and immune cells populations within the context of the tissue structure.
15		Single cells are profiled in tissue.
		Hyperion Imaging System Technology
16		The Hyperion Imaging System technology is an innovative system based on laser ablation technology coupled with mass cytometry time-of-flight (TOF) of the resulting ablation plume
17		(see Figures 2 and 3). The Hyperion Tissue Imager uses a solid-state laser with a laser beam directed at the slide through the Sampler Cone. The sample on the slide or the tuning film on the slide is ablated and aerosolized. The ablation chamber, which houses the glass slide,
18		is pressurized with helium and the resulting aerosol plume is delivered through the coupling tubing to the inductively coupled plasma (ICP) torch of the Helios through the argon and
19		Analysis is performed on the Helios system.
20		Figure 3 and Description in Hyperion User Guide
21		CAMERA OPTICAL CHAMBER
22		OFFICAL COMPONENTS LED CHORTZER
		OBJECTIVE ATTENDATION TOP SEPTICE ARGON ABLATION CHAMBER COUPLING TUBE ARGON ID TO TOP TOP TOP TOP TOP TOP TOP TOP TOP
23		STAGE VACUAM INTERFACE DEFLECTOR
24		Figure 3. Schematic of the Hyperion Imaging System coupled to the Helios instrument
25	2. The method of claim 1, wherein incubating the	The Hyperion™ Instrument with Maxpar® Reagents
26	element tagged affinity reagent with the analyte comprises:	practices Claim 2 of the '104 Patent. For example, the workflow depicted on the Fluidigm Mass
27	incubating two or more differential element tagged affinity reagents with two or more	Cytometry Methods (Webpage) describes use of multiple metal (element) tagged antibodies.
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1	'104 Patent	Hyperion TM Instrument with Maxpar® Reagents
2	analytes, wherein the element tagged affinity reagents specifically bind with the two or more	Fluidigm Imaging Mass Cytometry Applications
3	analytes to produce two or more differentially tagged analytes, wherein analyzing the element	(Webpage) A Simple Four-Step Workflow The Imaging Mass Cytometry workflow enables deep profiling of standard FFPE or frozen tissue sections and of fixed cells
4	tag bound to the affinity reagent comprises analyzing the differential element tags bound to	deposited on glass microscope slides using the Hyperion Imaging System.
5	the two or more analytes by atomic spectroscopy.	1 1 2 3 4
6		DESIGN STAIN IMAGE ANALYZE Images in minutes pathologist-verified or fixed cells using subcellular resolution using the MCD Viewer and easily export for
7		conjugated to Imaging System. secondary analysis, metal tags.
8		
9	14. The method of claim 1, wherein the affinity reagent is an antibody.	The Hyperion™ Instrument with Maxpar® Reagents practices Claim 14 of the '104 Patent. For example,
10		the workflow depicted on the Fluidigm Imaging Mass Cytometry Applications (Webpage) describes use of
11		antibody affinity reagents.
12		Fluidigm Imaging Mass Cytometry Applications (Webpage)
13		A Simple Four-Step Workflow The Imaging Mass Cytometry workflow enables deep profiling of standard FFPE or frozen tissue sections and of fixed cells deposited on glass microscope slides using the Hyperion Imaging System.
14		Washing The State of the State
15		1 DESIGN STAIN IMAGE ANALYZE protein markers at images in minutes
16		pathologist-verified or fixed cells using subcellular resolution using the MCD Viewer and easily export for conjugated to metal tags. subcellular resolution using the MCD Viewer and easily export for secondary analysis.
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19	'698 Patent	Hyperion TM Instrument with Maxpar® Reagents

'698 Patent HyperionTM Instrument with Maxpar® Reagents 1. A system for sequentially analyzing single cells The HyperionTM Instrument with Maxpar® Reagents in a sample by mass spectrometry, practices Claim 1 of the '698 Patent. For example, wherein the sample comprises a plurality of the Fluidigm Imaging Mass Cytometry Applications tagged cells tagged with a plurality of tagged webpage and the Hyperion User Guide describe a antibodies, wherein each of the plurality of tagged sample comprising metal tagged antibodies, and a antibodies is specific for a different analyte, and system to vaporize, atomize, and ionize multiple wherein each of the plurality of tagged antibodies elemental tags (by directing LA-plumes to the ICP is tagged with an elemental tag comprising a torch) and detecting by mass spectrometry (by TOFlanthanide or noble metal; MS). wherein the system comprises: a first device to vaporize, atomize, and ionize Fluidigm Imaging Mass Cytometry Methods (Webpage) multiple elemental tags from a single first cell of the plurality of tagged cells and multiple elemental tags from a single second cell of the plurality of tagged cells; and

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PLAINTIFFS'

CONFIDENTIAL INTERROGATORIES (FIRST SET)

RESPONSES TO DEFENDANT'S

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'698 Patent a second device to detect, by mass spectrometry, lanthanides and/or noble metals of the single first cell by detecting a transient signal of the multiple vaporized, atomized, and ionized elemental tags of the single first cell, and lanthanides and/or noble metals of the single second cell by detecting a transient signal of the multiple vaporized, atomized, and ionized elemental tags of the single second cell, wherein the transient signal associated with the single first cell and the transient signal associated with the single second cell are detected sequentially.

HyperionTM Instrument with Maxpar® Reagents

A Simple Four-Step Workflow

The Imaging Mass Cytometry workflow on glass microscope slides using the Hyperion Imaging System









panels using pathologist-verified Maxpar antibodies conjugated to metal tags.

es (FFPE or frozen) or fixed cells using familiar IHC protocols

IMAGE protein markers at subcellular resolution using the Hyperion ANALYZE images in minutes using the MCD View and easily export for

Pg. 7 of Hyperion User Guide Introduction

The Hyperion* Imaging System is a mass cytometry-based high-resolution laser ablation system that allows the highly multiplexed imaging with 135 channels available. The system is designed to detect metal-tagged antibodies bound to the cell surface and intracellular proteins in tissue sections using immunohistochemical methods. This allows researchers to investigate cellular subpopulations and cell-to-cell interactions in various tissue microenvironments with greater resolution. The system allows for high-resolution cellular profiling in spatial proximity, enabling detection of disease cells and immune cells populations within the context of the tissue structure.

Single cells are profiled in tissue.

Pg. 9 of Hyperion User Guide

The system directs a pulsed laser beam through the optical components of the optics chamber through the attenuator, which functions to moderate the energy of the laser. The camera captures the image from the slide that has been loaded onto the stage of the ablation chamber. The laser beam ablates spots on the slide, resulting in plumes of aerosol particles (ablated material). The plumes are directed to the Helios ICP torch, where they are vaporized, atomized, and ionized in the plasma. The high-pass optic removes the low-mass ions, resulting in an ion cloud that enters the TOF mass analyzer. The ions are separated

Figure 3 and Description in Hyperion User Guide

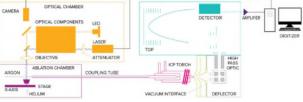


Figure 3. Schematic of the Hyperion Imaging System coupled to the Helios instrument

5. The system of claim 1, wherein at least one of the plurality of tagged antibodies is tagged using diethylenetriaminepentaacetic acid anhydride (DTPA), 1,4,7,10tetraazacyclododecanetetraacetic acid (DOTA), or a derivative thereof.

The HyperionTM Instrument with Maxpar® Reagents practices Claim 1 of the '698 Patent. For example, the Maxpar X8 Polymer comprises DTPA.

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RESPONSES TO DEFENDANT'S

INTERROGATORIES (FIRST SET)

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6. The system of claim 1, wherein each of the plurality of tagged antibodies is tagged with a distinct isotope. The Hyperion IM Instrument with Maxpar® Reagents practices Claim 6 of the 698 Patent. For example, 74 antibody labeling kits and labeled antibodies for Hyperion (some shown below) are sold by Fluidigm, all of which have isotope tags. Maxpar Antibody Listing for Hyperion Imaging-optimized Maxpar artibodies for human FFFE tissues Maxpar Antibody Listing for Hyperion Imaging-optimized Maxpar artibodies for human FFFE tissues Maxpar Antibody Listing for Hyperion Imaging-optimized Maxpar artibodies for human FFFE tissues Maxpar Antibody Listing for Hyperion Imaging-optimized Maxpar artibodies for human FFFE tissues Maxpar Antibody Listing for Hyperion Imaging-optimized Maxpar artibodies for human FFFE tissues Maxpar Antibody Listing for Hyperion Imaging-optimized Maxpar artibodies for human FFFE tissues Maxpar Antibody Listing for Hyperion Imaging-optimized Maxpar artibodies for human FFFE tissues Maxpar Antibody Listing for Hyperion Imaging-optimized Maxpar artibodies for human FFFE tissues Maxpar Antibody Listing for Hyperion Imaging-optimized Maxpar artibodies for human FFFE tissues Maxpar Antibody Listing for Hyperion Imaging-optimized Maxpar artibodies for human FFFE tissues Maxpar Antibody Listing for Hyperion Imaging-optimized Maxpar artibodies for human FFFE tissues Maxpar Antibody Listing for Hyperion Imaging-optimized Maxpar artibodies for human FFFE tissues Maxpar Antibody Listing for Hyperion Imaging-optimized Maxpar artibodies for human FFFE tissues Maxpar Antibody Listing for Hyperion Imaging-optimized Maxpar artibodies for human FFFE tissues Maxpar Antibody Listing for Hyperion Imaging-optimized Maxpar artibodies for human FFFE tissues Maxpar Antibody Listing for Hyperion Imaging-optimized Maxpar artibodies for human FFFE tissues Maxpar Antibody Listing for Hyperion Imaging-optimized Maxpar artibodies for human FFFE tissues Maxpar Antibody Listing for Hype	1											
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CMpc p67 3864025D 9E10 84Dy 25 µg CD44 3153029D 847 85Eu 25 µg CD45 3153016D CD45-28H 8528m 25 µg CD45 3153016D CD45 25 µg CD			Maxp Imaging- Target Alpha-SMA Aggnase 1 BF-H4 BCL-2 BCL-6	which ar A optimize Catalog Number 346027D 346030D 346030D 34609D 347020D	n hav	e iso ody Tag 1419v 164Dy 166Er 146Nd 147Sm	Listi bodies f Format 25 µg 25 µg 25 µg 25 µg	rtags. ng for runger conscious co	Hyp Catalog Number 31460200 31420410 31610290 31750360 31710240	Clone EPRIG784 6CMP31 H1 EPR6452 EPR8569	Tag 146Nd 142Nd 16IDy 175Lu 171Yb	Format 25 µg 25 µg 25 µg 25 µg 25 µg
Companies 30720770 SARE 0727b 25 µg CD45 31520N6D CD45-28H 1525m 25 µg CD45 31520N6D CD45-38H 1525m 25 µg CD45 CD45-38H 1525m 25 µg CD45 CD45-38H 1525m 25 µg CD45			Maxp Imaging- Target Alpha-SMA Arginase 1 87-144 BCL-2 BCL-6 Beta-action Buta-caterin	which ar A optimize Catalog Number 3M107D 3164027D 316609D 3154021D 3165032D	ntibo ed Maxp Clone 1AA DAE3M H74 EPR7509 2FF1 D13A1	e iso ody : ar antii Tag 1497 1602 1662 1475m 1545m 1654o	Listi bodies f Format 25 µg 25 µg 25 µg 25 µg 25 µg 25 µg	rtags. In for human F Target CD19 CD20 CD25 CD27 CD31 CD33	Hyp Catalog Number 31460200 3142040 3150290 31750360 3171024D 3151025D 31450770	Clone EPR16784 6CMP31 H1 EPR6452 EPR8560 EPR3094 Polyclonal	Tag 146Nd 142Nd 16IDy 17ELu 17Pb 15Eu 145Nd	Format 25 μg 25 μg 25 μg 25 μg 25 μg 25 μg
Code			Maxp Imaging- Target Alpha-SMA Anginase 1 87-44 8CL-2 BCL-6 Beta-actin Beta-caterin BRCA1	which ar A optimize Catalog Number 314077 31660300 31460190 31460190 31470200 31460320 31560320 31720300	n hav ntibo ntibo clone LAA LAFEM H74 EPRI7509 K112-91 2F-1 D13A1 MS110	e iso ody ar anti 141Pr 164Dy 166Er 146Nd 147Sm 165Ho 172Yb	Eisti bodies f Format 25 µg 25 µg 25 µg 25 µg 25 µg 25 µg 25 µg 25 µg	rags. ng for or human F Target CD19 CD29 CD27 CD31 CD38 CD38	Hyp Catalog Number 3146020D 3142041D 3150250 3175036D 315025D 3145077D 3141018D	Deriol Sues Clone EPR16784 6CMP31 H1 EPR6452 EPR83594 FPR3094 EPR3094 EPR4106	Tag 146Nd 142Nd 16IDy 175Lu 1710 15IEu 145Nd 141Pr	Format Format 25 μg
Code 38600380 58668 58604 25 µg Code 58600 3870080 Code 58 µg			Maxp Imaging- Target Alpha-SMA Arginase 1 87-14 8CL-2 BCL-6 Beta-etin BBCA1 C-Myc p67 Coupses-3	ar A optimize Catalog Number 3M407D 34607D 34609D 34609D 34609D 345002D 345002D 345002D 345002D 345002D 345002D 345002D 345002D	n hav	Tag 14197 154Dy 166Er 1466Ho 1727b 164Dy 164Dy	Dtope Listi bodies f Format 25 µg	Target CD19 CD20 CD27 CD31 CD33 CD34 CD44	Hyp Catalog Number 31460240 31610290 31750360 31710240 31510250 31450720 31450720 31450720 31530290	Clone EPRI6784 6CMP31 H1 EPR6452 EPR8569 EPR3094 EPR406 IM7	Tag 146Nd 142Nd 161Dy 175Lu 171Yb 151Eu 145Nd 141Pr 153Eu	Format 25 μg
COBB 3862036D CB848Y 8250y 25 µg COBB 31500290 H5C6 850M 25 µg COBB 3180028D DBABY 8250y 25 µg COBB 3170200 CD66-81 3710200 CD	; ;		Maxp Imaging- Target Alpha-SMA Anjinser 1 87-44 BCL-2 BCL-6 Beta-cetin Beta-cetin BCCA1 CMyc p67 Cappase-3 deleved	car A optimize Catalog Number 314607D 3166030D 314609D 314609D 315402ID 3165032D 3172030D 3164025D 3172027D	ntibo clone 1st 1st 1st 1st 1st 1st 1st 1st 1st 1s	Tag 1410r 164Dy 166Er 165Ho 172Yb 172Yb	Eisti bodies f Format 25 µg 25 µg 25 µg 25 µg 25 µg 25 µg 25 µg 25 µg 25 µg 25 µg	Target	Hyp Catalog Number 31460200 314204D 315029D 317024D 3151025D 314507D 314018D 3152029D 3152018D	Clone EPRE784 6CMP31 H1 EPRE452 EPRE560 EPR2094 Polydonal EPR4106 IM7 CO145-2811	Tag 146Nd 142Nd 16IDy 17Nb 15IEu 145Nd 145Nd 145Seu 152Seu 152Seu 152Seu	Format 25 μg
CONE 3480028D EPRISMA MISSION ESPRISMA MISSION ESPRISMA MISSION EPRISMA ESPIGATION ESPIGA			Maxp Imaging- Target Alpha-SMA Arginase 1 BEH-4 BEL-2 BCL-6 Beta-ctin BRCAI COMy-p67 Coppase-3 deleved CD3	which ar A optimize Catalog Number 3M1017D 3164027D 3166020D 317020D 3150012D 3150012D 315002D 315002D 3170019D	ntibo clone 1A4 D45M H74 EPRI7509 K112-91 2FH D13A4 MS110 9E10 SARE Polyclonal, C-Terminal	e iso dy ar antil Tag 14197 164Dy 166Er 146Nd 147Sm 165Ho 1727b 164Dy 727b	Distibodies f Format 25 µg	Target CD16 CD20 CD25 CD27 CD31 CD33 CD36 CD46 CD45 CD45 CD45 CD45 CD45 CD45 CD45 CD45	A STATE OF THE STA	Clone EPR16784 6CMP31 H1 EPR6452 EPR8569 EPR3094 EPR3094 IPR4106 IM7 CD45-2B11 D0M81 H1100	Tag 146Nd 142Nd 1610y 175Lu 1717b 151Eu 145Nd 141Pr 153Eu 152Sm 166Er	Format 25 μg
CD16: 3854025D Polychonal 8545m 25 µg CD73 3158023D EPR6195 85802d 25 µg CD74 3158023D WCD9 CD74 3156025D WCD 3160025D WCD 3160025D WCD9 WCD9 WCD9 WCD9 WCD9 WCD9 WCD9 WCD			Maxp Imaging- Target Alpha-SMA Arginase 1 87-14 8CL-2 8CL-6 Beta-ctionin BRCA1 CMyc p67 Compane-3 denved CD3 CD4	which ar A optimize Catalog Number 314407D 314607D 314609D 314609D 3145002D 315002D 315002D 315002D 315002D 315002D 315002D 315002D 315002D 315002D 315003D	ntibo Clone 1AA D4E3M H74 EPR175:09 X12-91 D13A1 MS110 SAIE Polyclonal 5-AIE Polyclonal E-reminal	e iso dy tag wipr 164by 166er 164by 166er 164bw 172vb 164by 172vb 170er 156Gd	Eisti bodies f Format 25 µg 25 µg	Target CD16 CD19 CD25 CD27 CD31 CD38 CD45 CD45 CD45 CD45 CD45 CD45 CD45 CD45	Hyp. Catalog Number 31460200 31420440 316029D 31750360 31710240 31500250 31450770 31450770 31450780 31520160 31520160 31520180 31520180 31730160	Clone EPRIS784 6CMP31 H1 EPRIS59 EPRIS60 EPRIS094 Polyclonal EPRIS09 CD45-2BH D0M81 HIIIO UCHL1	Tag 146Nd 142Nd 168Dy 976Lu 97Yb 158Eu 145Nd 148Pr 153Eu 152Sm 166Er 173Yb	Format 25 µg 26 µg 25 µg
The tag column shows use of isotopic elements, with isotope mass represented by the numbers preceding the letters identifying the element.	; ;		Maxp Imaging- Target Alpha-SMA Anginser 1 87-144 BCL-2 BCL-6 Beta-estin Beta-catenin BBCCA1 CMyc p67 Cappase-3 deswed CD3 CD4 CD6a	which ar A optimize Catalog Number 31407D 316020D 3146020D 3146090 3146090 315020D 316020D 316020D 317009D 315003D 315003D 315003D	n hav	Perison (1997) Tag (1997) 164 Dy (166 Er (166 Er (167 Er (16	Dtope Listi bodies f Format 25 µg	Target CD19 CD29 CD29 CD31 CD39 CD44 CD45 CD45RA CD65RO CD63	Hyp: Catalog Number 31460200 31460240 31750340 31750340 315102250 31450770 31430390 31520180 31520180 31520180 31520180 31530290 31530290 31530290	Clore EPRIS784 6CMP31 H1 EPRIS69 EPRIS69 EPRIS69 EPRIS69 EPRIS69 EPRIS69 IM7 CD45-28H D0M81 HH00 UCHL1 H506	Tag 146Nd 142Nd 163Dy 175Lu 165Eu 145Nd 145Nd 145Nd 145SEu 152Sm 162Sm 162Sm 162Sm 162Sm 162Sm 162Sm 162Sm	Format 25 µg
The tag column shows use of isotopic elements, with isotope mass represented by the numbers preceding the letters identifying the element.	3 5 7		Maxp Imaging- Target Alpha-SMA Algha-SMA Algha-SMA BCL-2 BCL-4 Beta-actin Beta-catenin BBCA1 C-Myc p67 Cappas-3 cleaved CD3 CD4 CD8a CD8a CD1b	which ar A optimize Catalog Number 34407D 3164027D 3164027D 3164027D 317020D 316002D 3172020D 3154025D 3172020D	n hav	e isody Tag 1419v 164Dy 166Er 164Sm 1672vb 164Dy 172vb 165Edd 172vb 165Edd 162Dy 162Dy 140Sm	Dtope Listi bodies f Format 25 µg	Target	Hyp. Catalog Number 31460200 31420400 31610290 31750360 31750360 31500250 31450180 31530290 31520160 31500290 315700200 31590350	Clone EPRI6784 6CMP31 H1 EPR6452 EPR8569 EPR3094 EPR3094 M7 CD45-2BH DØMBI HH00 UCHL1 H506 CD66-BH1 KPI	Tag 146Nd 142Nd 142Nd 142Nd 150Ly 170b 155Eu 152Sm 1626F 1737b 150F 150Tb	Format 25 µg
isotope mass represented by the numbers preceding the letters identifying the element.			Maxp Imaging- Target Alpha-SMA Alginase 1 B744 BCL-2 BCL-6 Beta-catin Beta-catenin BCACAI CMyc p67 Cospase-3 desved CD3 CD4 CD6a CD6a CD6a CD6b CD1b	which ar A optimize Catalog Number 314601270 31660200 31460210 31460201 3150201 3150201 3150201 31502030 31502030 31502030 31502030 31502030 31502030 31502030 31502030 31502030 31502030 31502030 31502030 31502030 31502030	n hav ntibo clone 1MA D4SM H74 EPRTS-09 K112-91 2F-1 D13A1 MSH0 9E10 SARE Polyclonal CR14MB D4SA8Y EPRTSMB POlyclonal Polyclonal Polyclonal	e isody Tag superior to the control of the control	Dtope Listi bodies f Format 25 µg	Target CD16 CD20 CD25 CD27 CD31 CD35 CD44 CD45 CD45 CD45 CD45 CD45 CD668 CD68 CD73	Hyp Catalog Number 31460200 3142040 31500250 31750360 31750360 31500250 31500250 31520180 31520180 31500290 31730160 31500290 31790200 31590350 31590350	Clone EPP16784 6CMP31 H1 EPP6452 EPP8569 EPP82094 Polydonal EPP4006 IM7 CD45-28H DOM81 H100 UCHL1 H5C6 CD66-811 EPR615	Tag 146Nd 160Dy 175Lu 177hb 165Eu 145Nd 145Pd 145Pd 155Eu 155Sm 155Sm 150Nd 177hb 158Gd	Format 25 μg
isotope mass represented by the numbers preceding the letters identifying the element.	3 4 5 7 3		Maxp Imaging- Target Alpha-SMA Anginase 1 B2-14 BCL-2 BCL-6 Beta-actin Beta-catenin BRCA1 CMy-p67 Cappase-3 cleaved CD3 CD4 CD6a CD76a CD76c	which ar A optimize Catalog Number Number 3146027D 3166027D 3166032D 317000D 3166032D 317000D 3160032D 317000D 3160032D	n hav ntibo clone 1A4 D4EM H74 EPRI7500 KI12-91 2F-1 D13A1 MS100 9610 SAIE Polyclone EPRI850 C8'144B D8A8Y EPRI344 Polyclonal	e isody Tag ar antil Tag Stilby SOE SOE SOE TOP SOE TOP TOP TOP SOE TOP SOE TOP TOP SOE TOP SOE TOP SOE TOP SOE SOE SOE SOE SOE SOE SOE S	Dtope Listi bodies f Format 25 µg	Target CD16 CD26 CD26 CD26 CD33 CD38 CD45 CD45 CD45 CD45 CD45 CD66a CD66a CD66 CD72 CD74 CD74 CD74 CD74 CD74 CD74 CD74 CD74	Hype tiss 3460200 3442040 3460200 34750360 34750360 34750360 34750360 3450030 34500000 3450000000000	Clone EPR16784 EPR16784 EPR6452 EPR8569 EPR3094 Polydonal EPR4106 M7 CD45-2BH DOMBI HII00 UCHL1 HSC6 CD66-BH1 KPI EPR6115 LIN2	Tag 149NM 142NM 142NM 145NM 155Eu 145NM 145PY 155Eu 152Sm	Format 25 µg 25 µg
the letters identifying the element.	2 33 44 55 66 77 78 9 0		Maxp Imaging- Target Alpha-SMA Anginase 1 BEH-4 BEL-2 BCL-6 Beta-catenin BER-41 C-Myc-p67 Cappase-3 deaved CD3 CD4 CD6a CD6a CD6b CD7b CD7c CD7c CD7c CD7c CD7c CD7c CD7c CD7c	which ar A optimize Casleog 3840750 3840270 3940700 3940270 39	n hav ntibo clone 1A4 D463M H74 EPRISOB K112-91 2F-1 D13A1 M310 9610 SAIE Polyclonal C-Terminal EPRESS C81444B D8A8Y EPRISAB D8A8Y EPRISAB M6D3	e isody Tag Sar antii Tag Sary SADy SADy SADy TOTAL TOTA	Dtope Listi bodies f Format 25 µg	Target CD16 CD19 CD20 CD20 CD25 CD25 CD31 CD31 CD33 CD35 CD44 CD45 CD45 CD45 CD45 CD45 CD56 CD56 CD56 CD57 CD73 CD74 CD1075 LAMP1 CD107	Hype tiss Casleog 3 3460200 3460200 34500000 34500000 34500000 34500000 34500000 34500000 34500000 34500000 34500000 34500000 34500000 34500000 34500000 345000000 345000000 3450000000000	CLORE CLORE EPRI6784 6CMP31 H1 EPRI652 EPRI6582 EPRI6580 EPRIF6869	Tag 146Ned 142Ned 142Ned 160Dy 175Lu 177th 155Eu 1552sm 1522sm 1525m 1506F 1508d 1508d 1508c 150	Format 25 μg
	3 4 5 6 7 8		Maxp Imaging- Target Alpha-SMA Anginase 1 BEH-4 BEL-2 BCL-6 Beta-catenin BER-41 C-Myc-p67 Cappase-3 deaved CD3 CD4 CD6a CD6a CD6b CD7b CD7c CD7c CD7c CD7c CD7c CD7c CD7c CD7c	which ar A optimize Casleog 3840750 3840270 3940700 3940270 39	n hav ntibo clone 1A4 D463M H74 EPRISOB K112-91 2F-1 D13A1 M310 9610 SAIE Polyclonal C-Terminal EPRESS C81444B D8A8Y EPRISAB D8A8Y EPRISAB M6D3	e isody Tag Sar antii Tag Sary SADy SADy SADy TOTAL TOTA	Dtope Listi bodies f Format 25 µg	Target CD16 CD19 CD20 CD20 CD25 CD25 CD31 CD31 CD33 CD35 CD44 CD45 CD45 CD45 CD45 CD45 CD56 CD56 CD56 CD57 CD73 CD74 CD1075 LAMP1 CD107	Hype tiss Casleog 3 3460200 3460200 34500000 34500000 34500000 34500000 34500000 34500000 34500000 34500000 34500000 34500000 34500000 34500000 34500000 345000000 345000000 3450000000000	CLORE CLORE EPRI6784 6CMP31 H1 EPRI652 EPRI6582 EPRI6580 EPRIF6869	Tag 146Ned 142Ned 142Ned 160Dy 175Lu 177th 155Eu 1552sm 1522sm 1525m 1506F 1508d 1508d 1508c	Format 25 μg
, $\ $	3 4 5 6 7 8 9 0		Maxp Imaging- Target Alpha-SMA Anginase 1 BF-144 BCL-2 BCL-6 Beta-cetin Beta-cetin BCCA1 CMyc p67 Cospase-3 deswed CD3 CD4 CD6a CD6a CD76 CD76 CD76 CD76 CD76 CD76 CD76 CD76	which which which which was a series of the control	n hav ntibo clone d Maxp Clone 14A D4E3M H5A EPROFSO K112-91 2F-11 D13A1 MS310 9E10 5AE C7-ferminal C7-ferminal EPROFSO C81448 Polyclonal C81448 Polyclonal EPROFSS WED3 4 WED3 4 WED3 CM CM CM CM CM CM CM CM CM C	e isody Tag Superinted States Tag Superinted States Superinted Sta	Description of the property of	Target CD19 CD20 CD20 CD21 CD31 CD33 CD44 CD45 CD45 CD45 CD45 CD45 CD45 CD45	Hype tiss	CLORE CLORE EPRI6784 6CMP31 H1 EPRI652 EPRI6582 EPRI6580 EPRIF6869	Tag 146Ned 142Ned 142Ned 160Dy 175Lu 177th 155Eu 1552sm 1522sm 1525m 1506F 1508d 1508d 1508c	Format 25 μg
	3 4 5 5 7 8 9		Maxp Imaging- Target Alpha-SMA Anginase 1 BF-144 BCL-2 BCL-6 Beta-cetin Beta-cetin BCCA1 CMyc p67 Cospase-3 deswed CD3 CD4 CD6a CD6a CD76 CD76 CD76 CD76 CD76 CD76 CD76 CD76	which which which which was a series of the control	n hav ntibo clone d Maxp Clone 14A D4E3M H5A EPROFSO K112-91 2F-11 D13A1 MS310 9E10 5AE C7-ferminal C7-ferminal EPROFSO C81448 Polyclonal C81448 Polyclonal EPROFSS WED3 4 WED3 4 WED3 CM CM CM CM CM CM CM CM CM C	e isody Tag Superinted States Tag Superinted States Superinted Sta	Description of the property of	Target CD19 CD20 CD20 CD21 CD31 CD33 CD44 CD45 CD45 CD45 CD45 CD45 CD45 CD45	Hype tiss	CLORE CLORE EPRI6784 6CMP31 H1 EPRI652 EPRI6582 EPRI6580 EPRIF6869	Tag 146Ned 142Ned 142Ned 160Dy 175Lu 177th 155Eu 1552sm 1522sm 1525m 1506F 1508d 1508d 1508c	Format 25 μg

Fluidigm's investigation is ongoing and Fluidigm reserves the right to supplement its objections and/or its response to this Interrogatory, including (without limitation) at appropriate times set forth in a Scheduling Order entered by the Court.

INTERROGATORY NO. 9

PLAINTIFFS' CONFIDENTIAL RESPONSES TO DEFENDANT'S INTERROGATORIES (FIRST SET)